JavaScript is disabled on your browser.

* [Overview](http://docs.google.com/overview-summary.html)
* [Package](http://docs.google.com/package-summary.html)
* Class
* [Use](http://docs.google.com/class-use/DocumentCategory.html)
* [Tree](http://docs.google.com/package-tree.html)
* [Deprecated](http://docs.google.com/deprecated-list.html)
* [Index](http://docs.google.com/index-files/index-1.html)
* [Help](http://docs.google.com/help-doc.html)
* [Prev Class](http://docs.google.com/simplenlg/framework/CoordinatedPhraseElement.html)
* [Next Class](http://docs.google.com/simplenlg/framework/DocumentElement.html)
* [Frames](http://docs.google.com/index.html?simplenlg/framework/DocumentCategory.html)
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simplenlg.framework

## Enum DocumentCategory

* java.lang.Object
  + java.lang.Enum<[DocumentCategory](http://docs.google.com/simplenlg/framework/DocumentCategory.html)>
    - simplenlg.framework.DocumentCategory

All Implemented Interfaces: java.io.Serializable, java.lang.Comparable<[DocumentCategory](http://docs.google.com/simplenlg/framework/DocumentCategory.html)>, [ElementCategory](http://docs.google.com/simplenlg/framework/ElementCategory.html)

* public enum DocumentCategory  
  extends java.lang.Enum<[DocumentCategory](http://docs.google.com/simplenlg/framework/DocumentCategory.html)>  
  implements [ElementCategory](http://docs.google.com/simplenlg/framework/ElementCategory.html)  
  This enumerated type defines the different *types* of components found in the structure of text. This deals exclusively with the structural format of the text and not of the syntax of the language. Therefore, this enumeration deals with documents, sections, paragraphs, sentences and lists.  
  The enumeration implements the ElementCategory interface, thus making it compatible the SimpleNLG framework.Version: 4.0 Author: D. Westwater, University of Aberdeen.

### Enum Constant SummaryEnum Constants

|  |
| --- |
| * + Enum Constant and Description |
| * + [**DOCUMENT**](http://docs.google.com/simplenlg/framework/DocumentCategory.html#DOCUMENT) Definition for a document. |
| * + [**LIST**](http://docs.google.com/simplenlg/framework/DocumentCategory.html#LIST) Definition for creating a list of items. |
| * + [**LIST\_ITEM**](http://docs.google.com/simplenlg/framework/DocumentCategory.html#LIST_ITEM) Definition for an item in a list. |
| * + [**PARAGRAPH**](http://docs.google.com/simplenlg/framework/DocumentCategory.html#PARAGRAPH) Definition for a paragraph. |
| * + [**SECTION**](http://docs.google.com/simplenlg/framework/DocumentCategory.html#SECTION) Definition for a section within a document. |
| * + [**SENTENCE**](http://docs.google.com/simplenlg/framework/DocumentCategory.html#SENTENCE) Definition for a sentence. |

### Method SummaryMethods

|  |  |
| --- | --- |
| * + Modifier and Type | * + Method and Description |
| * + boolean | * + [**equalTo**](http://docs.google.com/simplenlg/framework/DocumentCategory.html#equalTo(java.lang.Object))(java.lang.Object checkObject) Checks to see if the given object is equal to this document category. |
| * + boolean | * + [**hasSubPart**](http://docs.google.com/simplenlg/framework/DocumentCategory.html#hasSubPart(simplenlg.framework.ElementCategory))([ElementCategory](http://docs.google.com/simplenlg/framework/ElementCategory.html) elementCategory) This method determines if the supplied elementCategory forms an immediate sub-part of this category. |
| * + static [DocumentCategory](http://docs.google.com/simplenlg/framework/DocumentCategory.html) | * + [**valueOf**](http://docs.google.com/simplenlg/framework/DocumentCategory.html#valueOf(java.lang.String))(java.lang.String name) Returns the enum constant of this type with the specified name. |
| * + static [DocumentCategory](http://docs.google.com/simplenlg/framework/DocumentCategory.html)[] | * + [**values**](http://docs.google.com/simplenlg/framework/DocumentCategory.html#values())() Returns an array containing the constants of this enum type, in the order they are declared. |

### Methods inherited from class java.lang.EnumcompareTo, equals, getDeclaringClass, hashCode, name, ordinal, toString, valueOf

### Methods inherited from class java.lang.ObjectgetClass, notify, notifyAll, wait, wait, wait

### Enum Constant Detail

#### DOCUMENT public static final [DocumentCategory](http://docs.google.com/simplenlg/framework/DocumentCategory.html) DOCUMENT Definition for a document.

#### SECTION public static final [DocumentCategory](http://docs.google.com/simplenlg/framework/DocumentCategory.html) SECTION Definition for a section within a document.

#### PARAGRAPH public static final [DocumentCategory](http://docs.google.com/simplenlg/framework/DocumentCategory.html) PARAGRAPH Definition for a paragraph.

#### SENTENCE public static final [DocumentCategory](http://docs.google.com/simplenlg/framework/DocumentCategory.html) SENTENCE Definition for a sentence.

#### LIST public static final [DocumentCategory](http://docs.google.com/simplenlg/framework/DocumentCategory.html) LIST Definition for creating a list of items.

#### LIST\_ITEM public static final [DocumentCategory](http://docs.google.com/simplenlg/framework/DocumentCategory.html) LIST\_ITEM Definition for an item in a list.

### Method Detail

#### values public static [DocumentCategory](http://docs.google.com/simplenlg/framework/DocumentCategory.html)[] values() Returns an array containing the constants of this enum type, in the order they are declared. This method may be used to iterate over the constants as follows: for (DocumentCategory c : DocumentCategory.values())   System.out.println(c); Returns:an array containing the constants of this enum type, in the order they are declared

#### valueOf public static [DocumentCategory](http://docs.google.com/simplenlg/framework/DocumentCategory.html) valueOf(java.lang.String name) Returns the enum constant of this type with the specified name. The string must match *exactly* an identifier used to declare an enum constant in this type. (Extraneous whitespace characters are not permitted.)Parameters:name - the name of the enum constant to be returned. Returns:the enum constant with the specified name Throws: java.lang.IllegalArgumentException - if this enum type has no constant with the specified name java.lang.NullPointerException - if the argument is null

#### equalTo public boolean equalTo(java.lang.Object checkObject) Checks to see if the given object is equal to this document category. This is done by checking the enumeration if the object is of the type DocumentCategory or by converting the object and the this category to strings and comparing the strings. For example, DocumentCategory.LIST will match another DocumentCategory.LIST but will also match the string *"list"* as well.**Specified by:** [equalTo](http://docs.google.com/simplenlg/framework/ElementCategory.html#equalTo(java.lang.Object)) in interface [ElementCategory](http://docs.google.com/simplenlg/framework/ElementCategory.html) Parameters:checkObject - the object to be checked against. Returns:true if the object matches, false otherwise.

#### hasSubPart public boolean hasSubPart([ElementCategory](http://docs.google.com/simplenlg/framework/ElementCategory.html) elementCategory)

* + - This method determines if the supplied elementCategory forms an immediate sub-part of this category. The allowed sub-parts for each this type are outlined below:
      * **DOCUMENT**: can contain SECTIONs, PARAGRAPHs, SENTENCEs and LISTs. It cannot contain other DOCUMENTs or LIST\_ITEMs.
      * **SECTION**: can contain SECTIONs (referred to as subsections), PARAGRAPHs, SENTENCEs and LISTs. It cannot contain DOCUMENTs or LIST\_ITEMs.
      * **PARAGRAPH**: can contain SENTENCEs or LISTs. It cannot contain DOCUMENTs, SECTIONs, other PARAGRAPHs or LIST\_ITEMs.
      * **SENTENCE**: can only contain other forms of NLGElements. It cannot contain DOCUMENTs, SECTIONs, PARAGRAPHs, other SENTENCEs, LISTs or LIST\_ITEMs.
      * **LIST**: can only contain LIST\_ITEMs. It cannot contain DOCUMENTs, SECTIONs, PARAGRAPHs, SENTENCEs or other LISTs.
      * **LIST\_ITEMs**: can contain PARAGRAPHs, SENTENCEs, LISTs or other forms of NLGElements. It cannot contain DOCUMENTs, SECTIONs, or LIST\_ITEMs.

For structuring text, this effectively becomes the test for relevant child types affecting the immediate children. For instance, it is possible for a DOCUMENT to contains LIST\_ITEMs but only if the LIST\_ITEMs are children of LISTs.  
A more precise definition of SENTENCE would be that it only contains PHRASEs. However, this DocumentCategory does not consider these options as this crosses the boundary between orthographic structure and syntactic structure.  
In pseudo-BNF this can be written as:  
 DOCUMENT ::= DOCUMENT\_PART\*  
 DOCUMENT\_PART ::= SECTION | PARAGRAPH  
 SECTION ::= DOCUMENT\_PART\*  
 PARAGRAPH ::= PARAPGRAPH\_PART\*  
 PARAGRAPH\_PART ::= SENTENCE | LIST  
 SENTENCE ::= <NLGElement>\*  
 LIST ::= LIST\_ITEM\*  
 LIST\_ITEM ::= PARAGRAPH | PARAGRAPH\_PART | <NLGElement>  
   
Ideally the '\*' should be replaced with '+' to represent that one or more of the components must exist rather than 0 or more. However, the implementation permits creation of the DocumentElements with no children or sub-parts added.Parameters:elementCategory - the category we are checking against. If this is NULL the method will return false. Returns:true if the supplied elementCategory is a sub-part of this type of category, false otherwise.

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